What is claimed is:

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- 2 1. A thin type BGA semiconductor package comprising:
- a composite substrate including a wiring board and a dummy die, wherein the wiring
- 4 board has an upper surface, a lower surface and an opening, the opening passes
- 5 through the upper surface and the lower surface, a step is formed in the opening, a
- 6 plurality of ball pads are formed on the lower surface, a plurality of connecting pads
- are formed on the step and electrically connect with the ball pads, the dummy die is
- 8 attached to the lower surface of the wiring board and covers the opening to form a
- 9 chip cavity;
- an integrated circuit chip disposed in the chip cavity, the chip having an active
- surface and a back surface, a plurality of bonding pads being formed on the active
- surface and electrically connected to the connecting pads of the wiring board, the
- back surface of the chip being attached to the dummy die;
- a package body formed in the chip cavity of the composite substrate; and
- a plurality of solder balls on the ball pads.
- 16 2. The package of claim 1, wherein the dummy die has a thickness smaller than the
- diameter of the solder balls.
- 18 3. The package of claim 1, wherein the dummy die has an exposed surface without
- attaching the wiring board, a metal film is formed on the exposed surface.
- 4. The package of claim 1, wherein the wiring board has a plurality of ball-stacking pads
- formed on the upper surface of the wiring board.
- 22 5. A thin type semiconductor package comprising:
- a composite substrate including a wiring board and a dummy die, wherein the wiring
- board has an upper surface, a lower surface and an opening, the opening passes
- 25 through the upper surface and the lower surface, a plurality of ball pads are formed on
- the lower surface, a plurality of connecting pads are formed around the opening and
- electrically connect with the ball pads, the dummy die is attached to the lower surface

- of the wiring board and covers the opening to form a chip cavity;
- an integrated circuit chip disposed in the chip cavity, the chip having an active
- 3 surface and a back surface, a plurality of bonding pads being formed on the active
- 4 surface and electrically connected to the connecting pads of the wiring board, the
- 5 back surface of the chip being attached to the dummy die; and
- a package body formed in the chip cavity of the composite substrate.
- 7 6. The package of claim 5, wherein the dummy die has an exposed surface without
- 8 attaching the wiring board, a metal film is formed on the exposed surface.
- 9 7. The package of claim 5, further comprising a thermosetting compound mechanically
- bonding the dummy die and the wiring board.
- 11 8. A thin type semiconductor package comprising:
- a composite substrate including a wiring board and a dummy die, wherein the wiring
- board has an upper surface, a lower surface and an opening, the opening passes
- through the upper surface and the lower surface, a plurality of ball pads are formed on
- 15 the lower surface, a plurality of connecting pads are formed around the opening and
- electrically connect with the ball pads, the dummy die has a first surface and a second
- surface, the first surface of the dummy die includes a central region and a peripheral
- region surrounding the central region, the peripheral region of the dummy die is
- attached to the lower surface of the wiring board;
- an integrated circuit chip having an active surface and a back surface, a plurality of
- bonding pads being formed on the active surface, the back surface being attached to
- the central region of the dummy die;
- a plurality of bonding wires connecting the bonding pads of the chip with the
- connecting pads of the wiring board; and
- a package body formed in the opening of the wiring board and sealing the chip and
- the bonding wires.
- 27 9. The package of claim 8, wherein the package body is a dispensing material.

10. The package of claim 8, wherein the dummy die has a thickness smaller than the diameter of the solder balls. 11. The package of claim 8, wherein the dummy die has a metal film being formed on the second surface thereof. 12. The package of claim 8, wherein the wiring board has a plurality of ball-stacking pads on the upper surface of the wiring board.